Erratum


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The calculated density matrix (14) was in error. Therefore, the following changes should be made:

1. Change (14) to
   \[ \rho(\tau) = 1 - \beta_1 \omega_0 \sum_k I_k \cos \left( \frac{3 \pi G}{4} (l_k - l_k^0) \right) - I_k^0 \sin \left( \frac{3 \pi G}{4} (l_k - l_k^0) \right) \].
   (14)

2. Change (15) to
   \[ \rho_2 = \left\{ 1 - \beta_1 \omega_0 \sum_k \left[ I_k^0 \cos \Phi_k - (I_k^0 \cos \xi - I_k^0 \sin \xi) \sin \Phi_k \right] \right\}, \]
   (15)

   where \( \Phi_k = \left\{ \frac{3 \pi G}{4} \left[ (l_k - l_k^0) \cos \xi + (l_k - l_k^0) \sin \xi \right] \right\} \).

3. Change (17) to
   \[ \beta_{id} = - \frac{\text{Tr}\{\rho_2 \hat{H}_d\}}{\text{Tr}\{\hat{H}_d^2\}} = \frac{3}{4} \frac{1}{G \omega_{\text{loc}}^2} \sin(2\Phi_k) \frac{\text{Tr}\{\rho(\tau) \sum_{\mu \neq \eta} (l_\mu I_\eta + l_\eta I_\mu) \}}{\text{Tr}\{\hat{H}_d^2\}}. \]
   (17)

4. In the last sentence of Sect. 3, delete "and \( \tau = \frac{2 \pi}{G} \)."

5. Change the second sentence of Sect. 5 to:
   It can be seen from (26) that the spin-lattice relaxation time \( T_{id} \) depend on the cavity size \( V \), its shape \( F \) and orientation \( \theta \), \( T_{id} \sim \left( \frac{V}{F(1 - 3 \cos^2 \theta)} \right)^2 \).

6. Delete the third sentence of Sect. 5.

We thank Professor J. Jeener for pointing out this error.